

Message Text

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TO ALL NATO CAPITALS IMMEDIATE

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ALSO FOR MAAGS AND ATTACHES IN NATO CAPITALS

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SUBJECT: US-FRG TANK HARMONIZATION PROGRAM

REFERENCES: A) 189761 DTG 310007Z JULY (NOTAL)

B) STATE 192689

1. FYI THE TEXT OF THE ADDENDUM TO THE 1974 MEMORANDUM
OF UNDERSTANDING ON THE TANK HARMONIZATION PROGRAM FOLLOWS:
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2. BEGIN TEXT: THE UNITED STATES DEPARTMENT OF THE
ARMY (USDA) AND THE FEDERAL MINISTRY OF DEFENSE (FMOD) OF
THE FEDERAL REPUBLIC OF GERMANY (FRG) HAVING ENTERED INTO
THE ABOVE-MENTIONED MEMORANDUM OF UNDERSTANDING CONCERNING

THE HARMONIZATION AND STANDARDIZATION OF THE US TANK XM-1 AND THE FRG TANK LEOPARD 2, IN 1974, IN FURTHERANCE OF THE MEMORANDUM OF UNDERSTANDING THE FEDERAL MINISTRY OF DEFENSE AND THE DEPARTMENT OF DEFENSE NOW DESIRE TO IDENTIFY AND SPECIFY AREAS OF STANDARDIZATION OF THEIR RESPECTIVE TANKS AND TO THIS END PROVIDE AS FOLLOWS:

RESPONDING TO THE URGENCY TO OFFSET THE SIZEABLE EFFORT THE WARSAW PACT NATIONS HAVE BEEN DEVOTING IN THE GENERAL PURPOSE FORCES;

RECOGNIZING THE IMPORTANCE OF STANDARDIZATION AMONG NATO ALLIES, ESPECIALLY FROM A LOGISTICAL AND OPERATIONAL STANDPOINT;

NOTING THE MAJOR ADVANTAGES WHICH CAN BE ACHIEVED FROM STANDARDIZATION IN THE AREA OF CONSUMABLES, SUCH AS FUEL AND AMMUNITION, AND IN THOSE OTHER AREAS REQUIRING SUBSTANTIAL LOGISTICAL SUPPORT SUCH AS THE GUN, TRACK, ENGINE, TRANSMISSION, AND FIRE CONTROL;

INTENDING THAT EACH PARTY WILL MANUFACTURE ALL HARDWARE OF ITS PRODUCTION TANKS DOMESTICALLY UNLESS IT SPECIFICALLY ELECTS NOT TO DO SO;

CONFIRMING THAT IT IS THE INTENTION OF BOTH PARTIES THAT DATA AND LICENSE RIGHTS ON STANDARDIZED ITEMS WILL BE EXCHANGED BETWEEN THEM UNDER FAIR AND REASONABLE CONDITIONS;

PRESCRIBING THAT THE COMPARATIVE TESTS OF THE LEOPARD 2 AND THE XM-1 WILL CONTINUE IN KEEPING WITH THE MOU.

IN FURTHERANCE OF THESE OBJECTIVES, THE PARTIES DO AGREE AS FOLLOWS:
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I. COMMON STANDARD ITEMS

A. 120 MM GUN

(1) THE US WILL IMMEDIATELY INITIATE DEVELOPMENT OF A TURRET DESIGN(S) FOR THE XM-1 WHICH IS COMPATIBLE WITH BOTH THE 105 MM AND THE SMOOTH BORE AND RIFLED BORE 120 MM GUNS. (THE SAME TURRET NEED NOT ACCOMMODATE BOTH 120 MM GUN CONFIGURATIONS.) AT LEAST TWO OF THE ENGINEERING DEVELOPMENT MODELS TO BE PROCURED UNDER THE FULLSCALE ENGINEERING DEVELOPMENT CONTRACT WHICH THE USDA INTENDS TO AWARD WITHIN THE NEXT SEVERAL MONTHS WILL BE FITTED WITH THIS NEW TURRET. ALL PRODUCTION MODELS OF THE XM-1 WILL INCORPORATE THIS DUAL-CAPABLE

TURRET.

TO FACILITATE THIS DEVELOPMENT EFFORT, THE FRG WILL IMMEDIATELY DELIVER TO THE USDA ALL AVAILABLE TECHNICAL DATA REQUIRED FOR THE INSTALLATION DESIGN OF THE 120 MM SMOOTH BORE GUN IN THE XM-1 TURRET. SUBSEQUENTLY, THE FRG WILL LOAN AT FRG EXPENSE TWO (2) UNITS OF THE GUN AND PROVIDE APPROPRIATE TEST QUANTITIES OF AMMUNITION IMMEDIATELY UPON REQUEST SUBSEQUENT TO 15 JANUARY 1977.

(2) THE FRG WILL OBSERVE THE US TESTING OF THE UK GUN AND AMMUNITION AND WILL CONTINUE INVESTIGATIONS OF CHANGES REQUIRED TO MOUNT THE RIFLED GUN IN THE LEOPARD 2 TURRET.

(3) THE FRG AND THE US AND, HOPEFULLY, THE UK AND OTHER NATO NATIONS, WILL AGREE BY 15 JANUARY UPON A 120 MM CONFIGURATION (SMOOTH BORE OR IMPROVED RIFLED), MEETING BOTH THE XM-1 AND LEOPARD 2 REQUIREMENTS AND SUITABLE FOR INTRODUCTION INTO PRODUCTION BY MARCH 1977. THE FRG AND US WILL ENTER INTO A SEPARATE AGREEMENT TO PROVIDE FOR TESTING OF THE FRG SMOOTH BORE GUN IN SUPPORT OF THIS DECISION.

(4) THE US WILL INITIATE PRODUCTION OF THE 120MM GUN AND AMMUNITION AT SUCH TIME AS IT MEETS THE REQUIRE- UNCLASSIFIED

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MENT OF BEING READY FOR PRODUCTION AND IS CERTIFIED AS SUCH BY THE DEVELOPING NATION INCLUDING ALL SPECIFIED UNIQUE US REQUIREMENTS, AND THE MANUFACTURING DATA USED BY THE DEVELOPING CONTRACTOR IS MADE AVAILABLE TO THE USDA OR ITS CONTRACTOR(S). XM-1 TANKS MANUFACTURED SUBSEQUENT TO THE AVAILABILITY OF DOMESTICALLY MANUFACTURED 120 MM GUNS WILL BE EQUIPPED WITH SUCH GUNS. THE ABOVE SPECIFIED UNIQUE US REQUIREMENTS WILL BE DEFINED BY THE USDA AND DELIVERED TO THE FRG BY 15 JANUARY 1977. SPECIAL TEST DATA REQUIREMENTS WILL BE SUBMITTED TO THE FRG BY 15 OCTOBER 1976.

(5) THE LEOPARD 2 TANK, TO BE DELIVERED TO THE US IN SEPTEMBER 1976, WILL BE FITTED WITH A 105 MM GUN AND TESTED IN ACCORDANCE WITH THE 11 DECEMBER 1974 MEMORANDUM OF UNDERSTANDING. FOLLOWING THESE TESTS, IT WILL BE MODIFIED AND TESTED WITH A SMOOTH BORE 120 MM GUN. A LIMITED TEST QUANTITY OF 120 MM AMMUNITION WILL BE PROVIDED FOR THIS PURPOSE BY FRG, AT FRG EXPENSE.

B. TURBINE POWER PACKAGE

(1) THE US WILL CONTINUE DEVELOPMENT OF THE STANDARD AGT 1500 TURBINE POWER PACKAGE, CONSISTING OF AN

ENGINE AND TRANSMISSION, AND WILL INCORPORATE THAT POWER PACKAGE INTO THE XM-1 AT THE EARLIEST PRACTICABLE DATE. THE FRG WILL INITIATE PRODUCTION AND INTRODUCE THE STANDARDIZED TURBINE POWER PACKAGE INTO THE LEOPARD 2 AT SUCH TIME AS IT HAS MET THE REQUIREMENTS FOR ENTRY INTO PRODUCTION, THE US HAS IN FACT INCORPORATED IT INTO THE XM-1 PRODUCTION AND HAS CERTIFIED IT AS COMPLYING WITH THE SPECIFIED UNIQUE FRG REQUIREMENTS AND THE MANUFACTURING DATA USED BY THE DEVELOPING CONTRACTOR IS MADE AVAILABLE

TO THE FRG OR ITS CONTRACTOR(S). THE ABOVE SPECIFIED UNIQUE FRG REQUIREMENTS WILL BE DELIVERED TO THE USDA BY 15 JANUARY 1977.

- (2) THE US WILL LOAN, AT ITS EXPENSE, A SERVICE-ABLE TURBINE POWER PACKAGE TO THE FRG BY 1 JULY 1977 FOR INSTALLATION AND TEST IN A LEOPARD 2 TANK IN THE FRG.
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C. OTHER STANDARD ITEMS

(1) THE FRG AND US AGREE THAT A COMMON TRACK AND ASSOCIATED HARDWARE (SPROCKET, ETC.) WILL BE USED ON THE XM-1 AND LEOPARD 2 TANKS. THESE SPECIFIED HARDWARE ITEMS WILL BE SELECTED PRIOR TO JANUARY 15, 1977, BY THE PARTIES BASED UPON THE COMPARATIVE RELIABILITY/DURABILITY TESTS OF THE XM-1 AND LEOPARD 2 CONDUCTED AT ABERDEEN DURING 1976, AND UPON LIFE CYCLE COST CONSIDERATIONS. TECHNICAL DATA ON THE DIEHL TRACK WILL BE PROVIDED IMMEDIATELY.

(2) COMMON STANDARD DIESEL FUEL WILL BE USED BY BOTH COUNTRIES IN LEOPARD 2 - XM-1 GENERATION TANKS INCORPORATING THE STANDARD TURBINE POWER PACKAGE.

(3) THE FRG WILL INCORPORATE THE US NIGHT VISION DEVICE (FLIR) INTO INITIAL PRODUCTION OF THE LEOPARD 2 TANK.

(4) THE US WILL INCORPORATE THE FRG GUNNER'S TELESCOPE INTO INITIAL PRODUCTION OF THE XM-1 TANK. TECHNICAL DATA SUFFICIENT TO PERMIT US CONTRACTORS TO SUBMIT COST AND TECHNICAL PROPOSALS TO THE USDA WILL BE PROVIDED BY THE FRG IMMEDIATELY.

(5) BOTH COUNTRIES WILL UTILIZE STANDARD METRIC FASTENERS AT UNIT-LEVEL MAINTENANCE INTERFACES. THE OBJECTIVE IS TO REQUIRE ONLY ONE SET OF TOOLS ON-BOARD THE TANK.

(6) THE US AGREES TO CONTINUE WORK AT ITS OWN EXPENSE ON THE ADVANCED KINETIC ENERGY 105 MM ROUNDS AND TO MAKE THEM AVAILABLE TO THE FRG AND OTHER NATO ALLIES ON REASONABLE TERMS AND CONDITIONS FOR USE IN EXISTING

INVENTORY CLASSES OF TANKS.

(7) THE US AND FRG WILL INVESTIGATE THE POSSIBILITY OF STANDARDIZING THE FIRE CONTROL SYSTEM HARDWARE. THE RESULTS OF THE TESTING OF THE XM-1 AND LEOPARD 2 AT ABERDEEN ARE EXPECTED TO PROVIDE THE TECHNICAL BASIS FOR DECISION. IN ANY EVENT, THE FIRE CONTROL SYSTEMS

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ADOPTED WILL BOTH BE FUNCTIONALLY CAPABLE OF ACCEPTING BOTH 105 MM AND THE SELECTED STANDARDIZED 120 MM GUN.

II. TECHNICAL DATA EXCHANGE

1. EACH PARTY AGREES THAT THERE BE A TOTAL AND COMPLETE DISCLOSURE BETWEEN THEM OF ALL TECHNICAL DATA PERTAINING TO AGREED UPON COMMON SUBSYSTEMS; AND BOTH PARTIES SHOULD TAKE ALL REASONABLE STEPS TO INSURE THAT SUCH DATA IS MADE AVAILABLE TO THE OTHER PARTY IN A TIMELY FASHION.

2. THE PARTIES RECOGNIZE THEIR MUTUAL AND IMMEDIATE REQUIREMENTS TO MAKE AVAILABLE TO EACH OTHER AND THEIR INDUSTRIES CONCERNED DATA ON THE ITEMS TO BE STANDARDIZED IN ORDER TO PERMIT THEIR INDUSTRIES TO PREPARE AND SUBMIT TECHNICAL AND COST PROPOSALS ON SUCH ITEMS.

3. THE PARTIES AGREE TO MAKE THE NECESSARY DATA IMMEDIATELY AVAILABLE TO EACH OTHER AND AGREE THAT THEY WILL FURNISH IT TO THEIR INDUSTRIES ON CONDITION THAT IT BE USED ONLY FOR THE PURPOSE OF PREPARING AND SUBMITTING PROPOSALS TO THEIR RESPECTIVE GOVERNMENTS. NO DATA IS REQUIRED TO BE FURNISHED BY USDA IF FURNISHING SUCH DATA COULD IN ANY WAY DELAY OR JEOPARDIZE THE ONGOING COMPETITION FOR THE XM-1 PROGRAM.

4. THE PARTIES ALSO RECOGNIZE THAT SUBSEQUENTLY THERE WILL BE A FURTHER AND MUTUAL REQUIREMENT FOR THE EXCHANGE OF MORE DETAILED MANUFACTURING DATA SO AS TO PERMIT THE MANUFACTURE BY BOTH GOVERNMENTS OF STANDARDIZED SUBSYSTEMS. THE USDA AND FRG BELIEVE THAT SUCH DATA SHOULD BE OBTAINED BY THE OTHER PARTY AND ITS CONTRACTORS DIRECTLY FROM THE DEVELOPING CONTRACTOR, UPON FAIR AND REASONABLE TERMS AND CONDITIONS. TO FACILITATE SUCH EXCHANGE, EACH GOVERNMENT WILL INCLUDE IN ITS CONTRACTS, PROVISIONS REQUIRING ITS CONTRACTORS TO ENTER INTO AGREEMENT FOR AND TO EXPEDITIOUSLY TRANSFER SUCH TECHNICAL DATA UPON FAIR AND REASONABLE TERMS AND CONDITIONS.

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III. TECHNICAL KNOW-HOW

1. IN ADDITION TO THE TECHNICAL DATA TO BE FURNISHED, THE DEVELOPING COUNTRY, WITHIN A REASONABLE TIME AFTER THE RECEIVING COUNTRY MAKES A REQUEST THEREFOR, SHALL MAKE AVAILABLE THE SERVICES OF KNOWLEDGEABLE TECHNICIANS TO CONSULT WITH AND ASSIST THE RECEIVING COUNTRY AND ITS CONTRACTORS IN THE INITIATION AND TECHNIQUES OF PRODUCTION OF COMMON ITEMS. ALL COST INCURRED IN SATISFYING REQUESTS FOR TECHNICAL ASSISTANCE (INCLUDING TRAVEL AND LIVING EXPENSES AND REGULAR SALARIES) SHALL BE THE RESPONSIBILITY OF THE REQUESTING COUNTRY. THE TIMING, THE FREQUENCY, AND THE LENGTH OF VISITS MUST BE AGREED TO BY BOTH PARTIES.

2. THE DEVELOPING COUNTRY, WITHIN A REASONABLE TIME AFTER THE RECEIVING COUNTRY MAKES A REQUEST THEREFOR, SHALL ALSO ARRANGE FOR A REASONABLE NUMBER OF THE RECEIVING COUNTRY'S TECHNICIANS TO VISIT PLANTS IN THE DEVELOPING COUNTRY TO STUDY AND OBSERVE AND RECEIVE INSTRUCTION IN THE TECHNIQUES OF MANUFACTURING THE COMMON ITEMS. ALL COSTS INCURRED IN SATISFYING REQUESTS FOR SUCH VISITS (INCLUDING TRAVEL AND LIVING EXPENSES AND REGULAR SALARIES OF THE VISITING TECHNICIANS) SHALL BE THE RESPONSIBILITY OF THE REQUESTING COUNTRY. THE TIMING, THE FREQUENCY, AND THE LENGTH OF VISITS MUST BE AGREED TO BY BOTH PARTIES.

IV. TASK GROUPS

IT SHALL BE THE RESPONSIBILITY OF THE TANK PROGRAM PROJECT MANAGER FOR EACH GOVERNMENT TO ENSURE THAT THE NECESSARY LIAISON BETWEEN THE GOVERNMENTS AND BETWEEN THE CONTRACTORS IS ESTABLISHED SO AS TO EXPEDITE THE INTRODUCTION AND PRODUCTION OF STANDARDIZED SUBSYSTEMS. TO ASSIST THE PROJECT MANAGERS JOINT TASK GROUPS WILL BE ESTABLISHED AS REQUIRED.

V. MISCELLANEOUS

1. ALL ACTIONS CONTEMPLATED BY AND AGREED TO IN THIS UNCLASSIFIED

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ADDENDUM BY THE US AND FRG WILL BE IMPLEMENTED WITHIN THE EXISTING LAWS AND REGULATIONS OF THE TWO COUNTRIES. THE MINISTRY OF DEFENSE AND THE DEPARTMENT OF DEFENSE AGREE TO SEEK FROM THEIR RESPECTIVE PARLIAMENT AND CONGRESS THE SUPPORT NEEDED TO ASSURE CONTINUATION OF THE LEOPARD 2 AND XM-1 PROGRAMS INCLUDING THE PROVISIONS INDICATED HERBIN.

2. EACH COUNTRY SHALL KEEP THE OTHER INFORMED OF ITS PROGRESS IN THE DEVELOPMENT OF STANDARDIZED ITEMS, AND SHALL PERMIT REPRESENTATIVES OF THE OTHER TO WITNESS AND OBSERVE ALL TEST PROGRAMS. COPIES OF SIGNIFICANT GOVERNMENT TEST DATA WILL BE FURNISHED UPON REQUEST.

3. DURING THE PERIOD LEADING UP TO THE CERTIFICATION FOR PRODUCTION OF THE TURBINE POWER PACKAGE AND THE 120 MM GUN, BOTH COUNTRIES WILL BE ABLE TO PROCEED WITH THE DEVELOPMENT AND TEST AND, IF NECESSARY, FIRST-LOT PRODUCTION OF THEIR CURRENT DESIGN LEOPARD 2 AND XM-1, RESPECTIVELY, EXCEPT AS AGREED ABOVE.

VI. SUMMARY

1. THE ACTIONS DESCRIBED HEREIN HAVE AS THEIR OBJECTIVE THE ESTABLISHMENT OF THE FOLLOWING MINIMUM DEGREE OF COMMONALITY:

SYSTEM DEGREE OF COMMONALITY

FUEL COMMON

AMMUNITION COMMON

GUN COMMON

FIRE CONTROL FUNCTIONS COMMON, HARDWARE
POTENTIALLY COMMON

TRACK (INCLUDING COMMON
SPROCKETS AND RE-
LATED HARDWARE)

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ENGINE COMMON

TRANSMISSION COMMON

NIGHT VISION DE- COMMON
VICE (FLIR)

GUNNER'S TELESCOPE COMMON

CRITICAL FASTENERS COMMON TYPES
SUSPENSION SEPARATE

HULL AND TURRET COMMON TECHNOLOGY BUT
METAL PARTS DIFFERENT DESIGNS

2. UPON REQUEST, THE DEVELOPING COUNTRY SHALL

MAKE AVAILABLE TO THE RECEIVING COUNTRY PRODUCTION MODELS OF AGREED UPON COMMON ITEMS DEVELOPED BY IT. (IF PRODUCTION MODELS ARE NOT AVAILABLE, PROTOTYPES WILL BE PROVIDED.)

3. THE US AND THE FRG EACH BELIEVES THAT IT IS HIGHLY DESIRABLE THAT, TO THE EXTENT FEASIBLE, THE TANK PROGRAMS OF THE NATO ALLIES BE COMPATIBLE AND LEAD TO GREATER COMMONALITY OF OUR EQUIPMENT. ACCORDINGLY, IN THE SPIRIT OF THIS AGREEMENT THE US AND FRG

WILL KEEP THE UK AND SUCH OTHER NATO NATIONS AS MAY BE APPROPRIATE INFORMED OF THE PROGRESS HEREUNDER IN ORDER TO ACHIEVE ADDITIONAL STANDARDIZATION AS MAY BE JOINTLY AGREED UPON. END TEXT. HABIB

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